34106914BOM V1 7/13

Barrette

Elite Rail & Stair Rail

Assembly and Installation Instructions

PLEASE READ OWNER'S MANUAL COMPLETELY BEFORE ASSEMBLING YOUR RAIL.

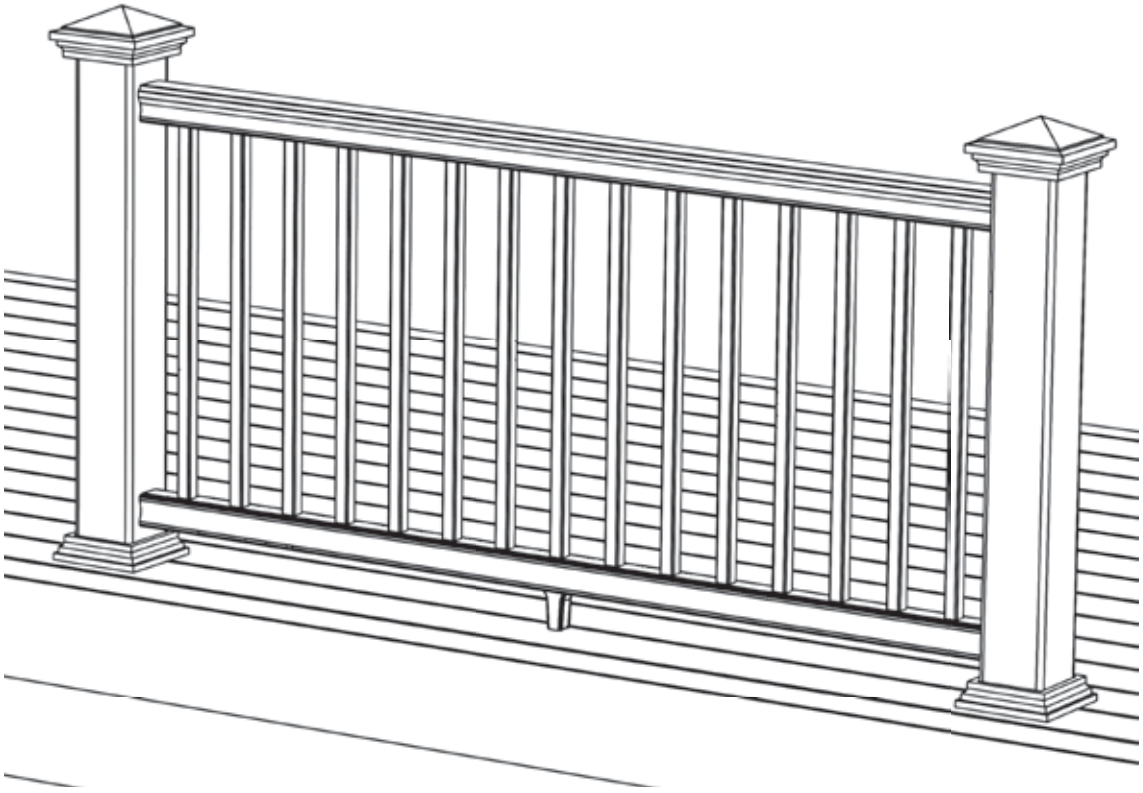
ALL STATED SIZES ARE NOMINAL DIMENSIONS.

73013042 / 73013043 / 73013044 / 73013048
73013049 / 73013050 / 73013051 / 73013052
73013053 / 73013054 / 73013055 / 73013056
73013069 / 73013071 / 73013073 / 73013079
73013080 / 73013081 / 73013085 / 73013086
73013087 / 73013088 / 73013095 / 73013096
73013282 / 73013306 / 73013307 / 73013308
73013314 / 73013315 / 73013316 / 73013317
73013318 / 73013319 / 73013320 / 73013321
73013335 / 73013345 / 73013346 / 73013347
73013348 / 73013349 / 73013841 / 73013842
73013843 / 73013844 / 73013845 / 73013846
73013847 / 73013848 / 73013849 / 73013850
73013851 / 73013852 / 73013853 / 73013854
73013855

Owner's Manual

Version

1.0



Rail Installation

Thank you for choosing the Barrette Outdoor Living Railing. Please read the instructions completely before assembling your rail. Retain manual and your dated sales slip for future reference and warranty claims.

Before You Begin…

Make sure your project meets local building codes before beginning installation.

Material Checklist:

- ☐ Tape Measure
- ☐ Level
- ☐ Hacksaw or Chopsaw
- ☐ Rubber Mallet
- ☐ Drill

ATTENTION: Before you assemble the rail:

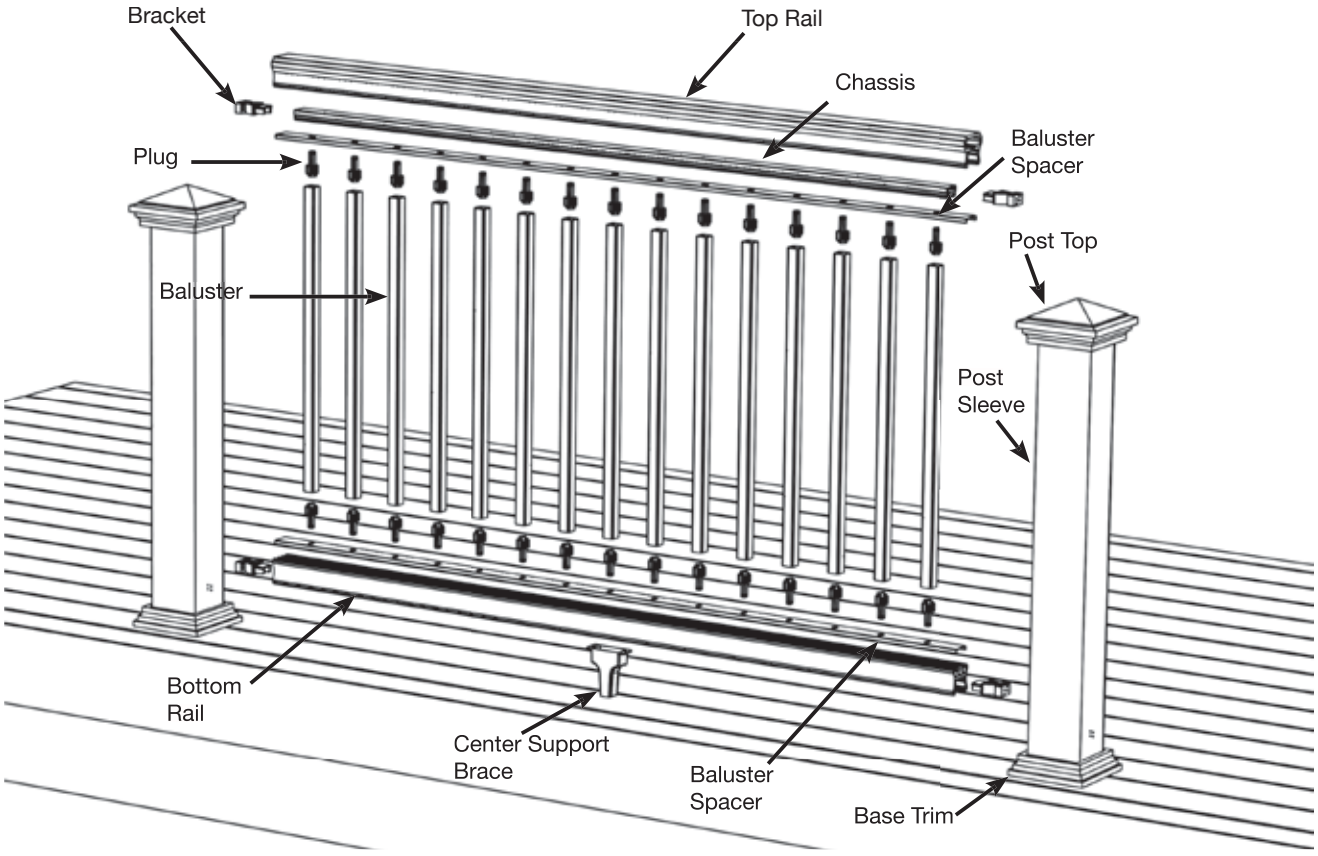
PLEASE TAKE A COMPLETE INVENTORY OF ALL PARTS USING THE KIT CONTENTS.

DO NOT ATTEMPT TO ASSEMBLE THE RAIL IF PARTS ARE MISSING OR DAMAGED.

Please do not return the product to the store, for assistance or replacement parts call:

1-800-336-2383

Rail Assembly:



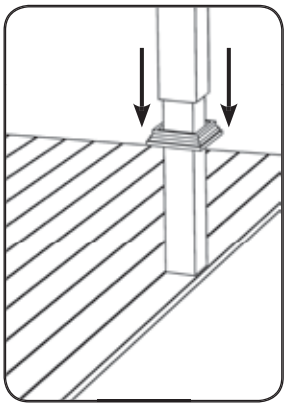
6' Kits Include:
(1) Elite Rail Top Rail or Dual Rail
(1) Elite Rail Bottom Rail
(1) Elite Rail Chassis
(2) Elite Rail Baluster Spacers
(15) 1-1/8" Square Balusters
(30) Baluster Plugs
(1) Bracket Kit with Screws
(1) Support Brace

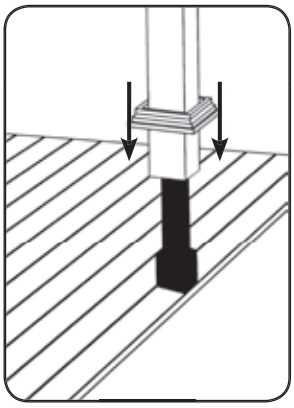
8' Kits Include:
(1) Elite Rail Top Rail or Dual Rail
(1) Elite Rail Bottom Rail
(1) Elite Rail Chassis
(2) Elite Rail Baluster Spacers
(20) 1-1/8" Square Balusters
(40) Baluster Plugs
(1) Bracket Kit with Screws
(2) Support Braces

10' Kits Include:
(1) Elite Rail Top Rail or Dual Rail
(1) Elite Rail Bottom Rail
(1) Elite Rail Chassis
(2) Elite Rail Baluster Spacers
(25) 1-1/8" Square Balusters
(50) Baluster Plugs
(1) Bracket Kit with Screws
(2) Support Braces

TIP: Precision cuts required to ensure optimum tight installation and fit.
Use chopsaw with thin carbide tip blade to ensure smooth cuts.
Pay particularly close attention to angle cuts to ensure tight fit.

1 Install Post Sleeves and Base Trim





1.1: Closely follow post install kit instructions (or sleeve existing wood 4x4) - Instructions included in Post Install Kit (sold separately).

1.2: Trim Post sleeve to desired length.
(39" is recommended for a 36" finished rail height. 45" is recommended for a 42" finished rail height)

(NOTE: If installing railing with a deck board as a top rail and “over the post”, see note in Step 7 first!)
(NOTE: If installing Elite low voltage lighting, refer to Elite L.V. Lighting installation guide for post heights.)

1.3: Slide post sleeve and base trim over wood 4 x 4 or already installed post install kit (See separate post install kit instructions).

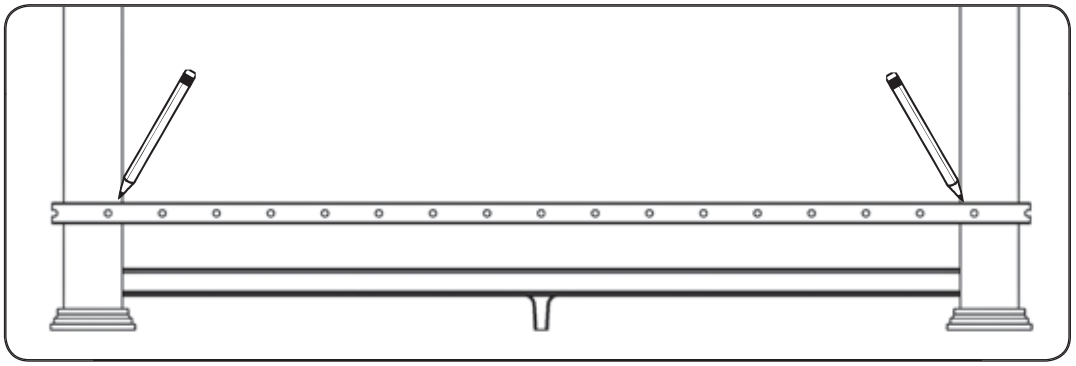
2 Cut Your Rails to Length

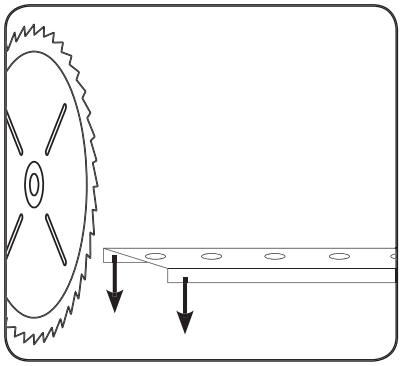
2.1: Measure the distance at the bottom of the post sleeves between already installed posts.

2.2: As long as posts are plumb, top rail length will equal bottom rail.

2.3: Cut top and bottom rails to length. When cutting top rail be sure to begin cut through top of top rail for best finish.

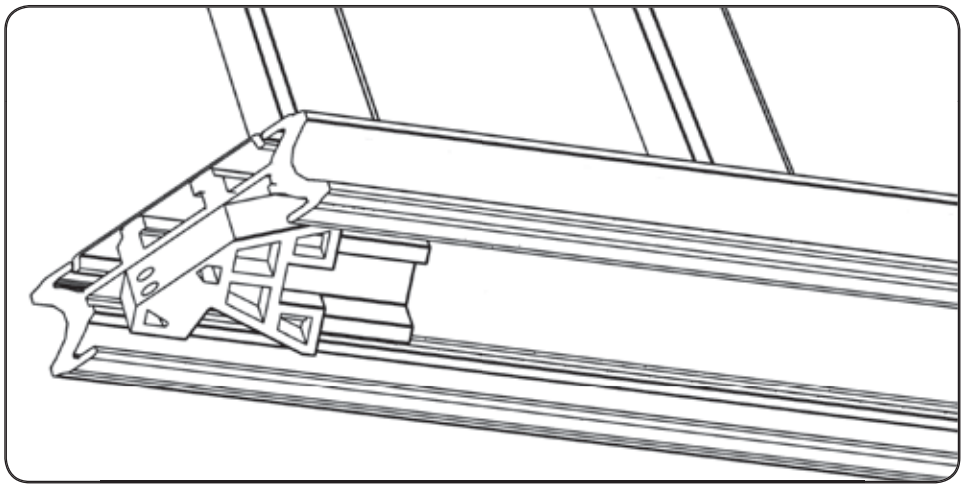
2.4 Place baluster spacer in top of bottom rail, which was cut to proper length in Step 2.3. Align allowing for equal distance of end holes to end of rail. Mark baluster spacer on each end with a pencil. As long as posts are plumb top rail baluster spacer will equal bottom rail baluster spacer. Cut baluster spacers one at a time. Be sure to cut slowly with a fine tooth blade, positioning the "legs" downward.





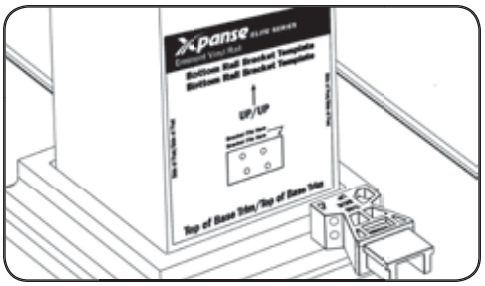
2.5: Cut chassis to a length of 4" less than the distance between posts. Be careful when handling the cut chassis.

2.6: For angled installations, see Step 7.



3 Prepare the Bottom Rail

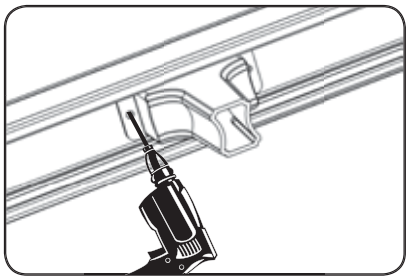
3.1: Install lower rail brackets. Position the provided bracket install template on the top of the installed post base trim. Use template to align the bottom brackets to the center of the post sleeve, making sure "THIS SIDE UP" on bracket faces up. Pre-drill bracket holes with 1/8" drill bit and attach bracket with #10 x 2-1/2" supplied screws.

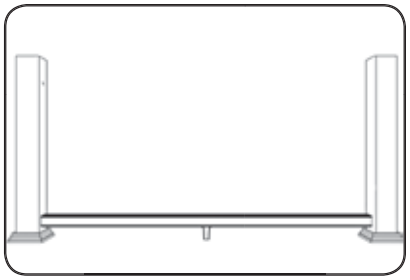


3.2: Install Center Support Brace

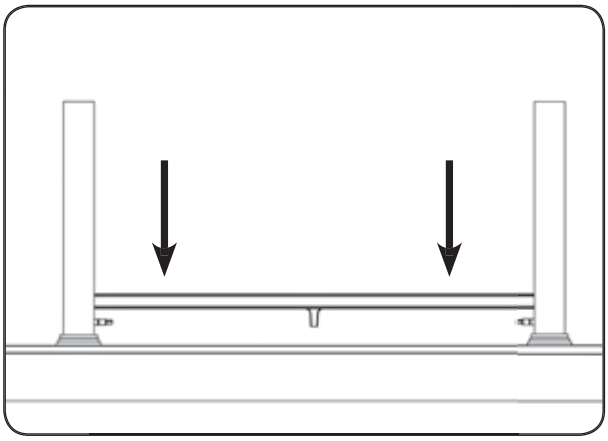
A. For 6' sections one support brace is included
- Measure equal distance from both ends of bottom railing and install support brace in center of bottom rail with supplied screws (two #10 x 3/4"). (Pre-drill with 1/8" drill bit.)

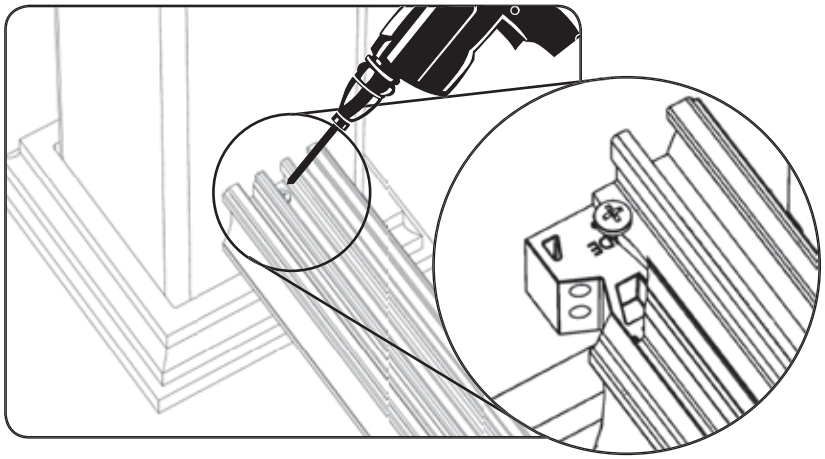
B. For 8' and 10' sections two support braces are included
- Measure length of bottom rail and divide by three - then measure that distance from each end of rail and install support braces with supplied screws (two #10 x 3/4"). (Pre-drill with 1/8" drill bit.)



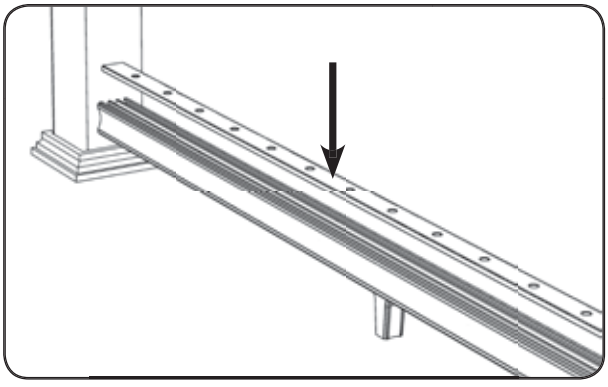


3.3: Install the bottom rail to the previously attached brackets. Slide bottom rail on top of brackets. Approximately 1-3/4" (Not more than 3") from end of post, pre-drill through rail and bracket with 1/8" drill bit. Drive the provided (#10 x 1") screw through the top of the bottom rail into brackets.

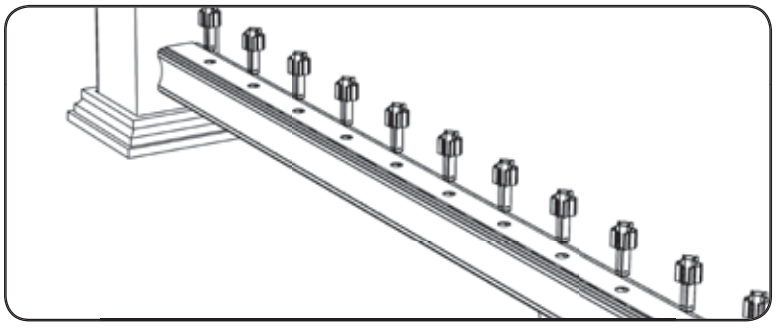




3.4: Place baluster spacer into the top of the bottom rail.

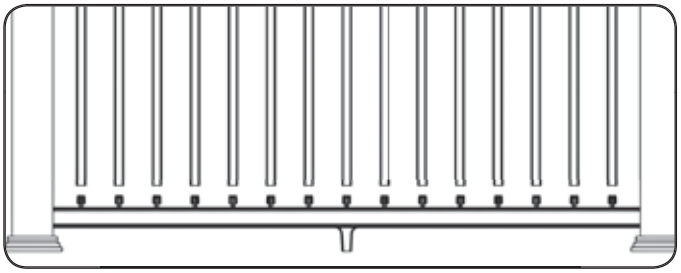


3.5: Install baluster plugs into the holes of the bottom rail baluster spacer. Push each plug through the routed hole until you hear a snap. Repeat until every hole is filled with a baluster plug.



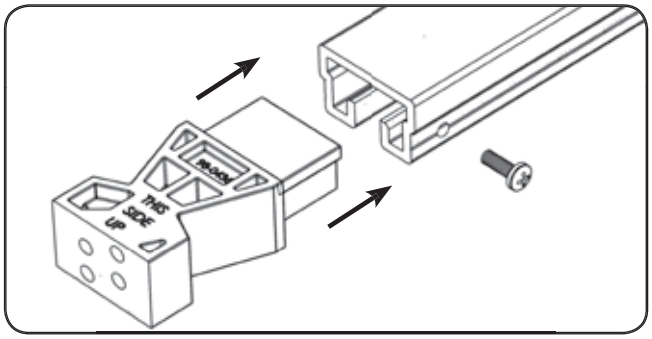
4 Installing the balusters

4.1: Slide balusters over the previously installed baluster plugs. Each baluster should be straight up, perpendicular to the bottom rail, and parallel to the posts.

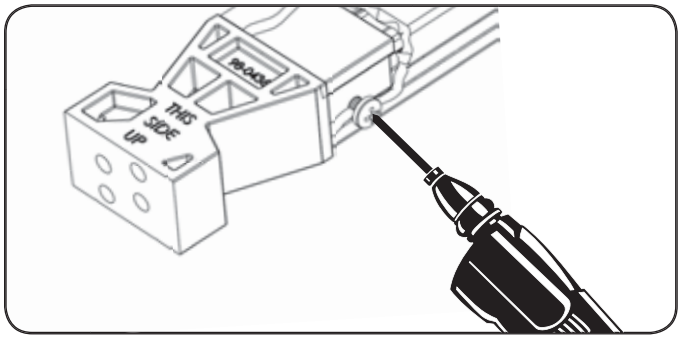


5 Prepare the Top Rail

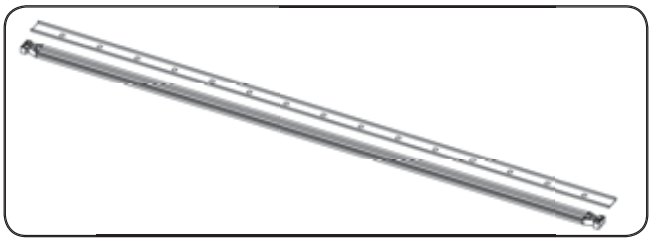
5.1: Plug in top brackets to chassis with "This Side Up" facing up to the top.



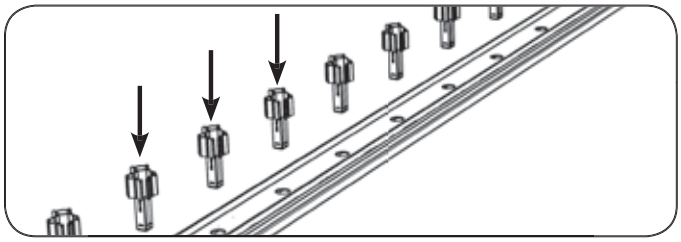
5.2: Attach the bracket to the chassis with a supplied #8 x 5/8" self tapping screw in groove in chassis. Repeat on opposite side. (NOTE: For 10' rail kits, chassis will be made of aluminum and should be pre-drilled with 1/8" drill bit.)



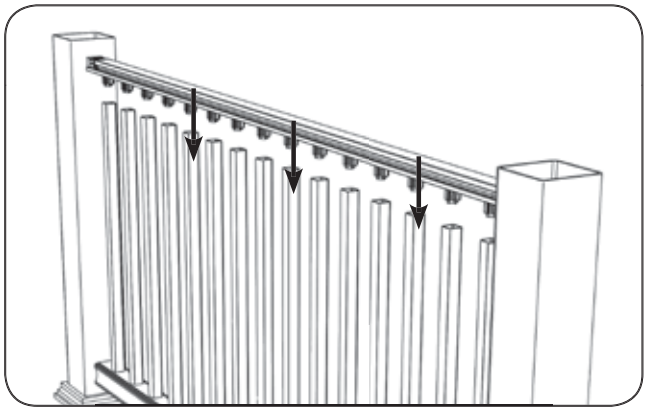
5.3: Turn chassis upside down and lay baluster spacer on top of chassis. Make sure the baluster spacer completely covers the chassis and brackets without extending beyond ends of brackets.



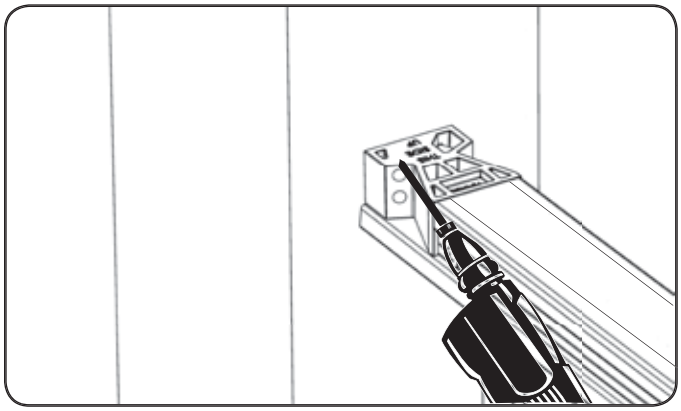
5.4: Install baluster plugs through baluster spacer into the chassis until you hear a snap.



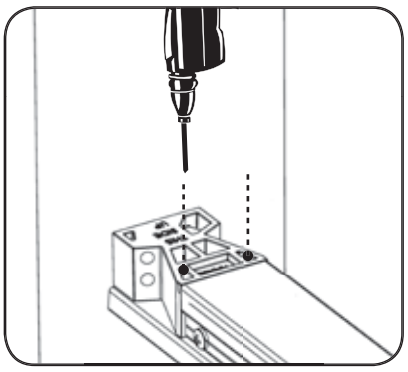
5.5: Carry assembled top rail chassis and plugs over to rail section and slide baluster plugs into the top of the previously installed balusters. Align plugs partially into each baluster. After all are engaged, firmly push down to ensure balusters fully engage the baluster plugs and the top baluster spacer becomes tight to the chassis.

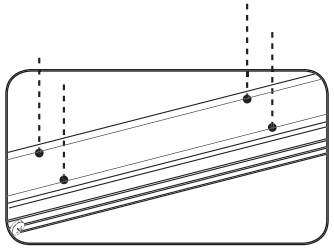


5.6: Using supplied #10 x 2-1/2" screws, attach top brackets to center of post. (NOTE: Be sure to push down on top of chassis while screwing into post to make the fit "snug")



5.7: Pre-drill with a 13/64" drill bit from the top of the installed chassis down all the way through baluster spacer cover. Start on one side of first bracket in corner nooks as indicated. For 6' rails, install two screws per bracket and two additional screws at midway point between brackets and chassis. Be sure to drill directly through the scored lines on the top of chasses. For 8' rails, install two screws per bracket, and remaining four screws equally spaced.





Drill on scored lines

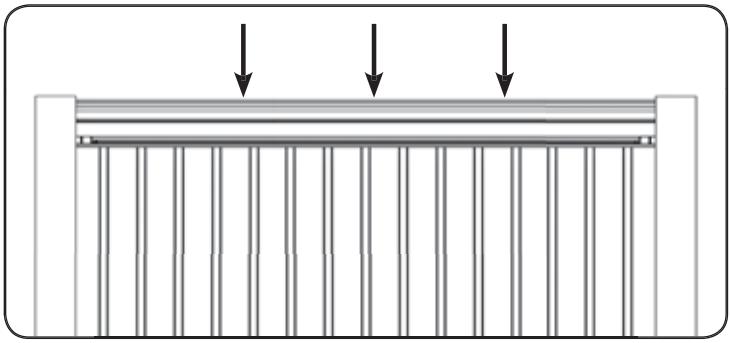
Evenly space the screws

6' Rail

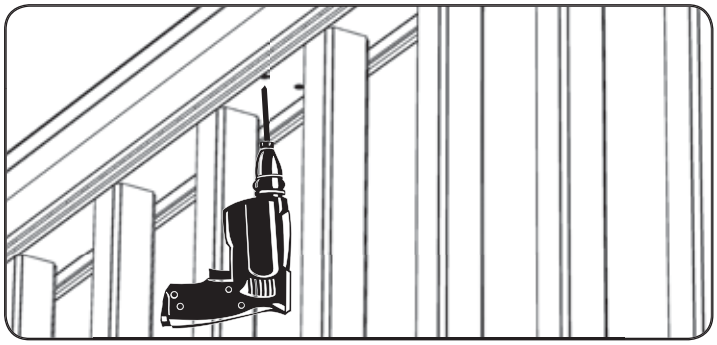
8' Rail

6 Installing the balusters

6.1: Slide top rail over the top of the assembled “chassis” fitting snug to posts.



6.2: Through the holes in the top rail baluster spacer made in Step 5.7, screw the provided #10 x 2" screws through the baluster spacer and chassis into the top rail to connect the assembly.



7 Installing Elite Railing on Angles

7.1: Use wood 2x4 as a template prior to cutting Elite railing on angles.

7.2: Place 2x4 on top of posts in which angle cut is needed. Mark from underneath and cut angle.

7.3: Place wood piece between posts to ensure tight fit.

7.4: Cut the top and bottom rails at same length/angle as wood piece.

7.5: Cut the top and bottom rail brackets (4) at same angle as rail. Do this by temporarily connecting brackets to chassis. (Chassis provides a safe handling of bracket so as not to have hands or fingers near saw blade while cutting). Remove brackets from Chassis.

7.6: Install bottom rail brackets using template to locate proper height of brackets (see Step 3.1).

7.7: Place baluster spacer in the top of the previously cut bottom rail. Align allowing for equal distance of end holes to end of rail. Mark baluster spacer on each end with a pencil.

7.8: Cut bottom spacer to marked length and angle, being sure to cut slowly with a fine tooth blade making sure "legs" are facing downward.

7.9: Cut top spacer to same length and angle as bottom spacer, in same orientation.

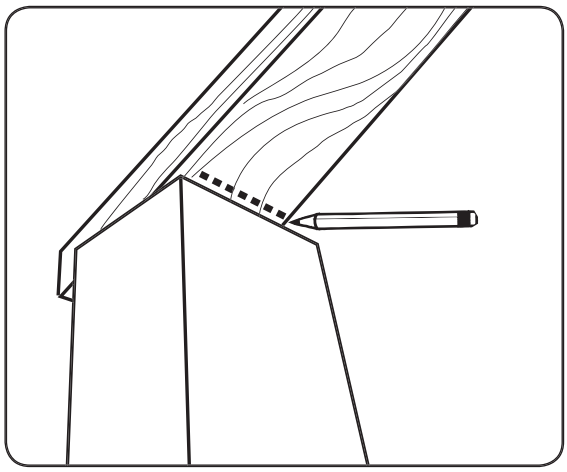
7.10: Install bottom rail to previously attached brackets (see Step 7.6).

7.11: Place baluster spacer into bottom rail.

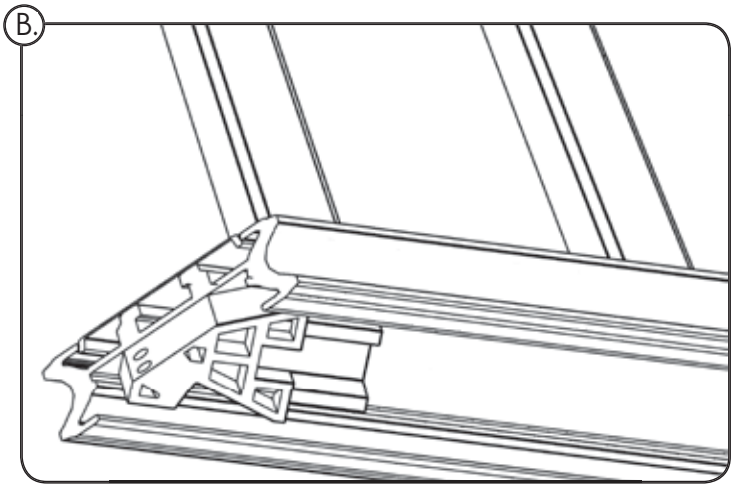
7.12: Install plugs and balusters
(Steps 3.5, 4.1)

7.13: a.) Attach cut bracket to end of Chassis (with screws) on one end only.
b.) Then, place Chassis and secured bracket into the top rail, making sure the cut bracket and cut rail are flush (see Figure B.)
c.) Next, plug in second bracket to opposite end of Chassis (do not screw in yet). Note: the bracket will extend beyond the end of the rail.
d.) Measure distance from end of cut rail to end of extended cut bracket (as shown in Figure D). Make sure your tape measure runs parallel to the rail/chassis to allow you to get the most accurate measurement.
e.) Remove bracket (the one that was not screwed in). Then, cut Chassis down by distance measured in Step 7.13d.
(Note: assembled length of Chassis + Brackets = assembled length of the rail.)

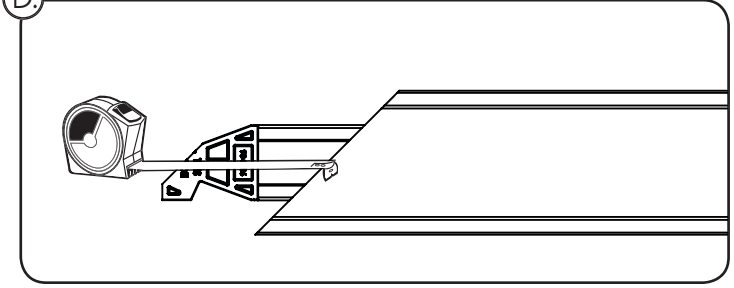
Go To Step 5 to install Top Rail



B.



D.

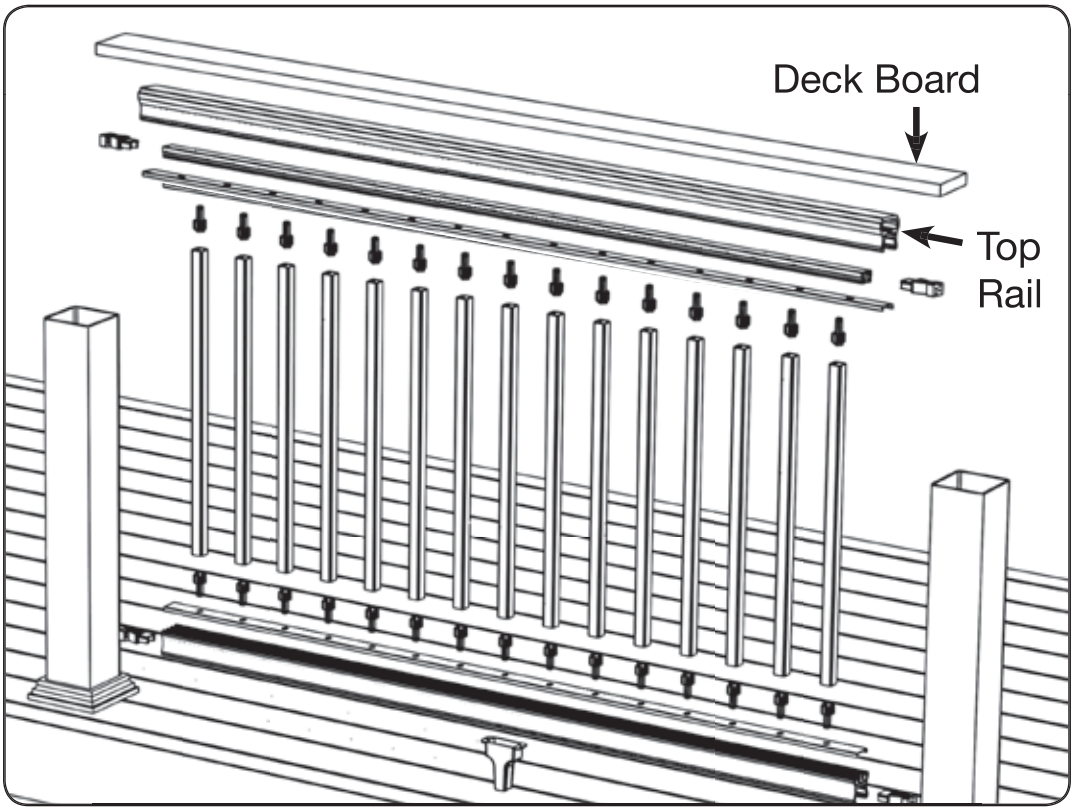


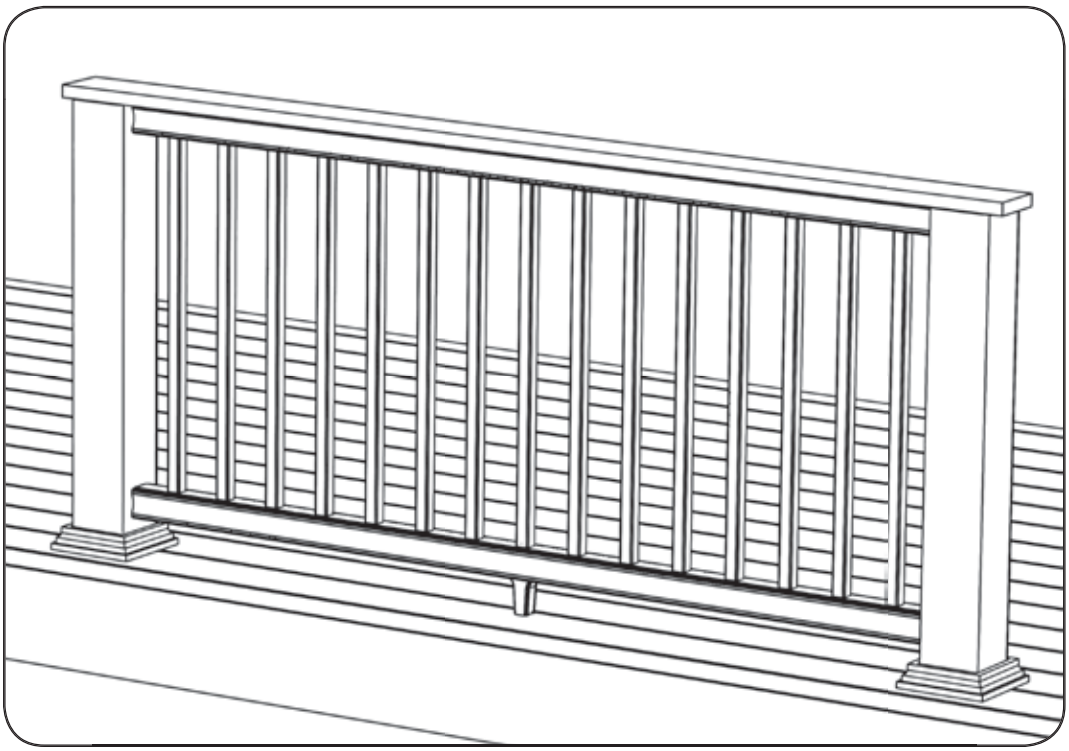
8 Installing the Deck Board in “Over the Top” Format

Note: Make sure posts are at same height as rail installation (with a good, tight installation, post and post sleeve to be cut to 35 13/16" high)

8.1: Follow instructions from Steps 2-3-4-5.

8.2: Place deck board (sold separately) over the top rail. Attach with board manufacturer recommended 2" screws into center of rail, through board, ensuring screws engage chassis.





Stair Rail Installation

Thank you for choosing the Barrette Outdoor Living Railing. Please read the instructions completely before assembling your rail. Retain manual and your dated sales slip for future reference and warranty claims.

Before You Begin…

Make sure your project meets local building codes before beginning installation.

Material Checklist:

- ☐ Tape Measure
- ☐ Level
- ☐ Hacksaw or Chopsaw
- ☐ Rubber Mallet
- ☐ Drill
- ☐ Drill bits
- ☐ #2 square drive bit

ATTENTION: Before you assemble the rail:

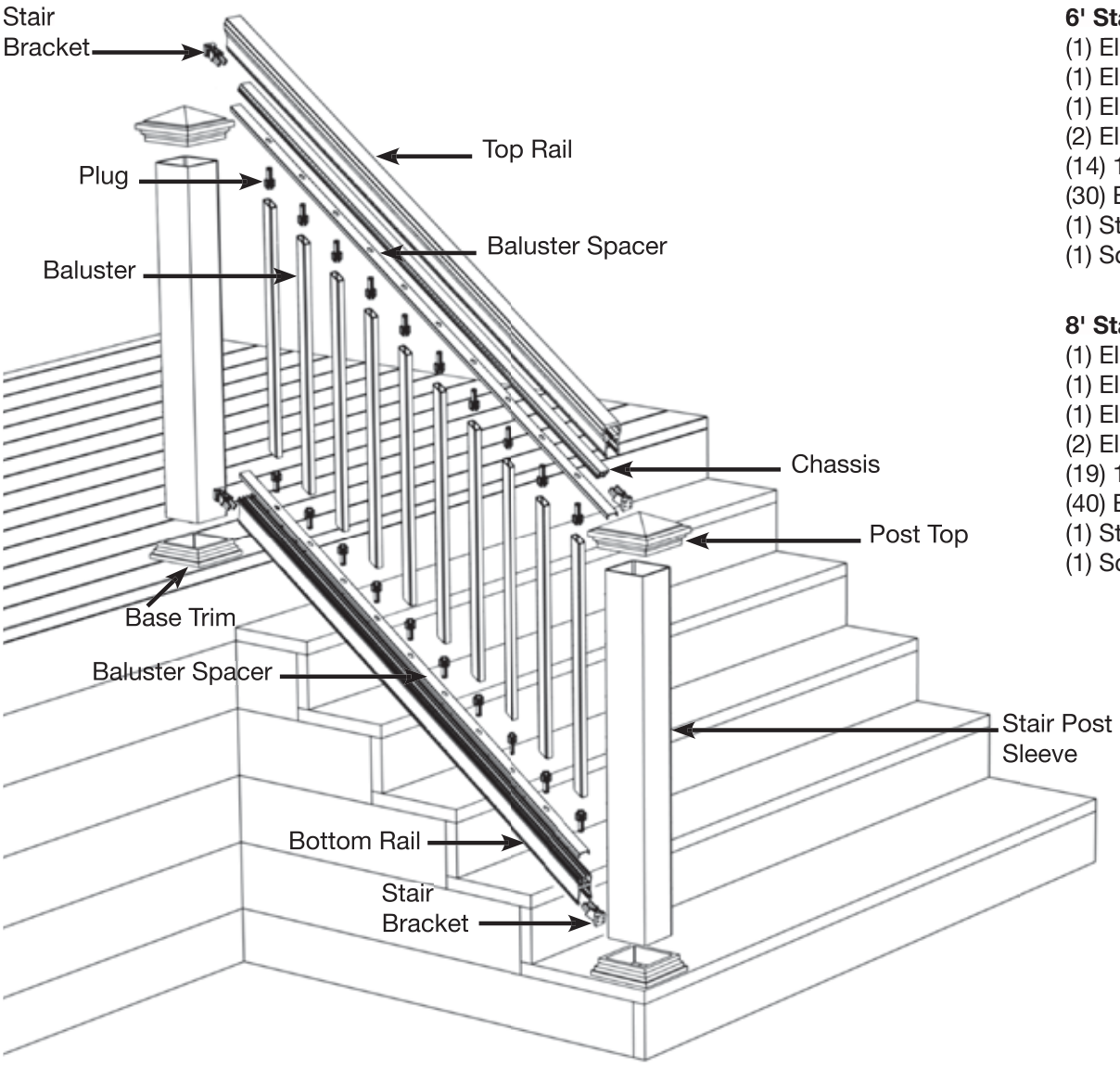
PLEASE TAKE A COMPLETE INVENTORY OF ALL PARTS USING THE KIT CONTENTS.

DO NOT ATTEMPT TO ASSEMBLE THE RAIL IF PARTS ARE MISSING OR DAMAGED.

Please do not return the product to the store, for assistance or replacement parts call:

1-800-336-2383

Stair Rail Assembly:



6' Stair Kits Include:
(1) Elite Rail Top Rail
(1) Elite Rail Bottom Rail
(1) Elite Rail Chassis
(2) Elite Rail Baluster Spacers
(14) 1-1/8" Square Balusters
(30) Baluster Plugs
(1) Stair Bracket Kit with Screws
(1) Screw pack

8' Stair Kits Include:
(1) Elite Rail Top Rail
(1) Elite Rail Bottom Rail
(1) Elite Rail Chassis
(2) Elite Rail Baluster Spacers
(19) 1-1/8" Square Balusters
(40) Baluster Plugs
(1) Stair Bracket Kit with Screws
(1) Screw pack

TIP: Building codes are specific as to angles, steepness, and dimensions of stair installations. Typical stair angles are usually 32 degrees (7" rise, and 11" run). Check with your local building code official as you plan your stair layout. Pay particularly close attention to angle cuts to ensure a tight fit.

Elite stair rail kits work with a stair slope from 26 degrees - 38 degrees; optimal at 32 degrees.

1 Install Post Sleeves and Base Trim

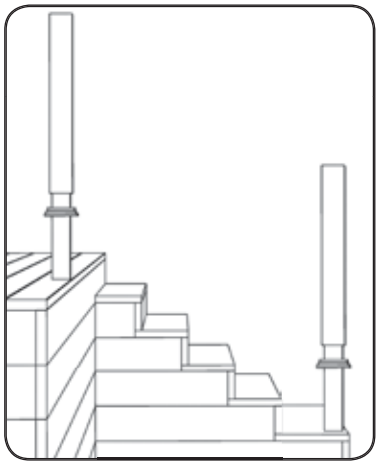
1.1: Trim Post sleeve to desired length. In most cases, the post and post sleeve at the bottom of the stairs will need to be longer than posts on the deck, to accomodate stair angles. (41" bottom stair post is recommended for a 36" finished rail height. 47" bottom stair post is recommended for a 42" finished rail height)

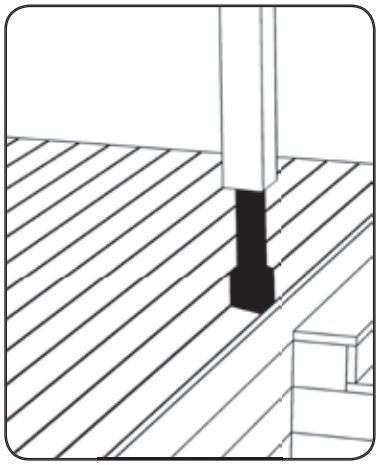
(NOTE: If installing Elite railing with a deck board as a top rail and "over the post", see note in Step 6 first!)

1.2: Make sure the top and bottom posts for stairs are installed so the base trims are installed at the nose of each tread.

1.3: Check to ensure the posts are plumb.

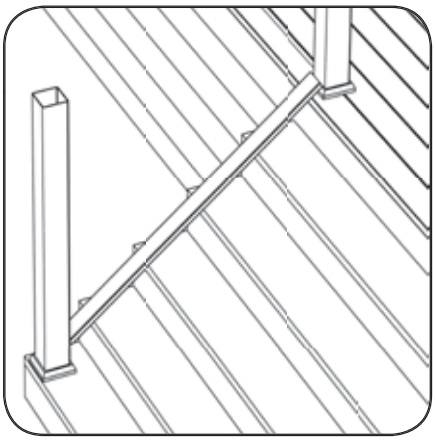
1.4: Slide post sleeve and base trim over wood 4 x 4 or already installed post install kit.
(See separate post install kit instructions)



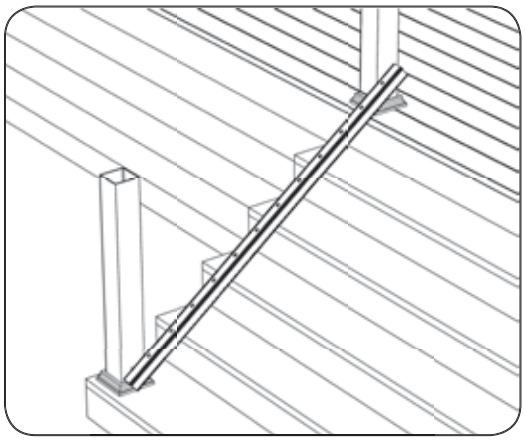


2 Prepare The Bottom Rail

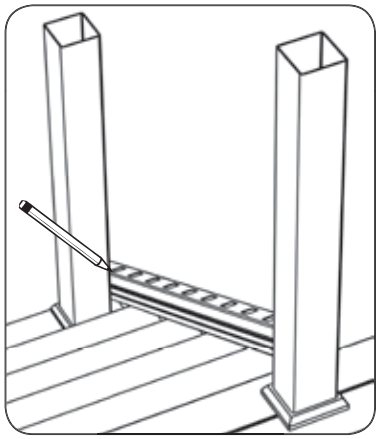
2.1: Place a temporary 5/4" deck board on top of stair noses for proper spacing underneath rails.

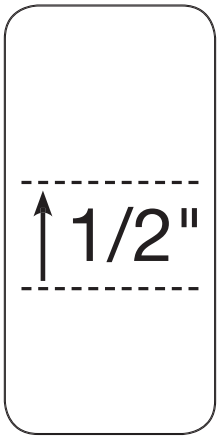


2.2: Set bottom rail baluster spacer inside bottom rail on top of temporary spacer board. Align rail and baluster spacer on posts until there is equal distance from post to first baluster hole on top and bottom of stairs; clamp to posts.



2.3: Mark the posts directly under the bottom rail, where the rail intersects both posts. From that mark, go up 1/2" and draw line across post. This will be your locator for bottom bracket placement.





2.4: Mark angled line on bottom rail assembly at intersection of rail and posts.

2.5: Remove rail and baluster spacer from temporary spacer board and posts and cut at marked angle.

2.6: Remove temporary spacer board.

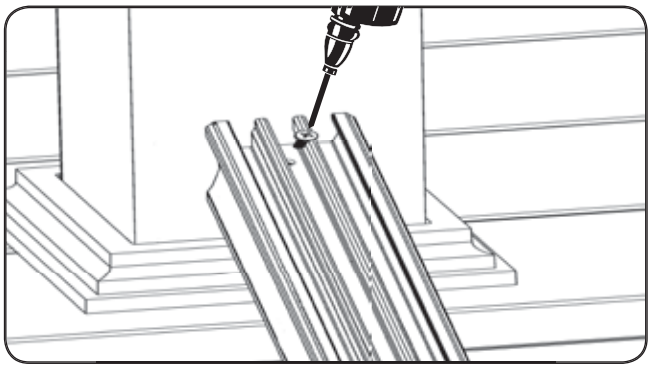
2.7: If angle is not 32 degrees, cut bottom stair brackets to same angle as rail and spacer.

2.8: Install bottom bracket at height found in Step 2.3 with #10x2" screws. The bottom of the bracket should align directly on the upper line marked on the post.

2.9: Remove previously cut bottom baluster spacer from bottom rail.

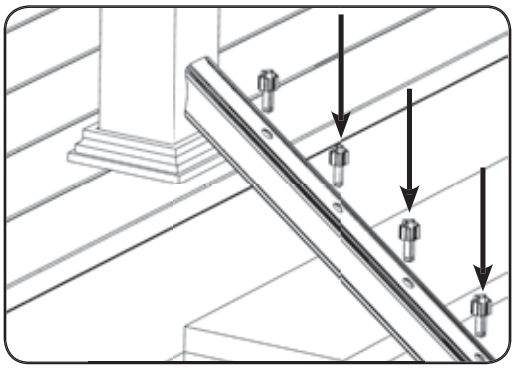
2 (Continued From Previous Page)

2.10: Slide bottom rail over installed brackets, fitting rail snug to posts. Approximately 1/2" from end of post, pre-drill through rail and bracket with 1/8" drill bit. Drive the provided #10 x 1" screw through the top of the bottom rail into bottom bracket.



2.11: Re-install bottom baluster spacer

2.12: Install baluster plugs into the holes of the bottom baluster spacer. Push each plug through the routed hole until you hear a snap, repeat until every hole is filled with a plug.



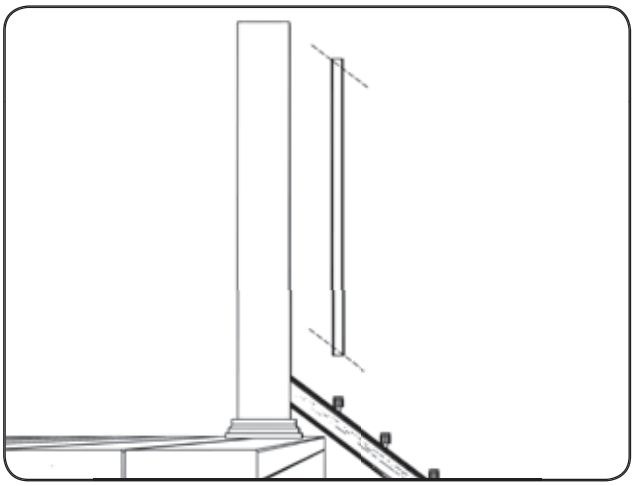
3 Installing The Balusters

TIP: When miter cutting balusters make sure to start cut at top edge of baluster to maximize length and ensure consistent cuts between balusters.

3.1: For 1-1/8" square balusters:
Cut balusters with miter saw, top and bottom, to same angle as the bottom rail cut.

3.2: For 3/4" round aluminum stair balusters: the top & bottom ends of the balusters are already cut to a 32 degree angle. For severe angles trim the bottom of your aluminum stair baluster to appropriate angle. (Top end will be hidden in top rail)

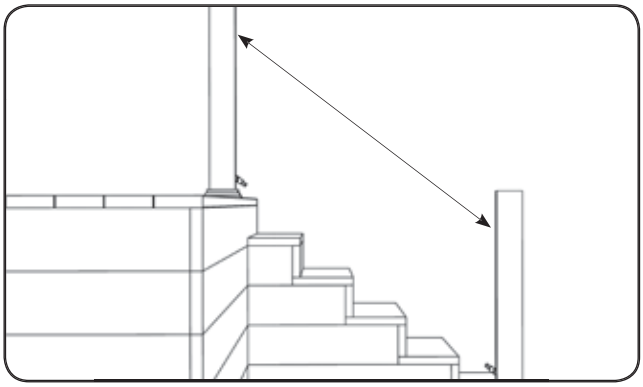
3.3: Slide balusters over the previously installed baluster plugs.
Each baluster should be straight up, parallel to the posts and flush to the bottom rail.



4 Prepare The Top Rail

4.1: Measure distance between top of installed posts. As long as posts are plumb, the distance will equal the distance at the bottom. This will be the top rail distance.

4.2: To determine chassis length, insert lower bracket into one end of chassis. Then place chassis on stair treads with the lower bracket against the lower post. Using the upper bracket as template, mark the chassis where it needs to be cut to fit between the posts. Cut chassis to length.



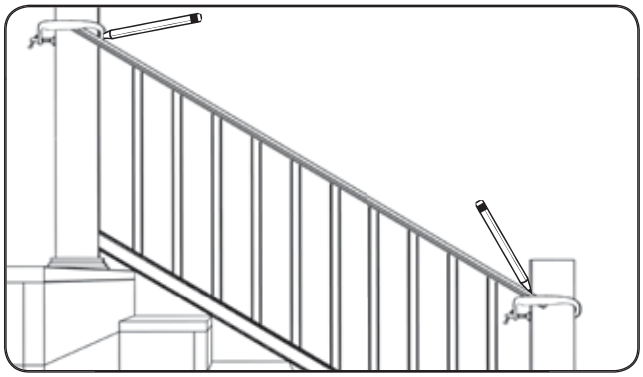
NOTE: Do not cut chassis at an angle

TIP: Ensure proper fit by cutting a test piece of wood to the previously determined length and angle to fit into the opening between the posts.

4.3: Clamp top rail and baluster spacer along the sides of the posts, so that the distance between the post to the first routed hole is equal on both ends Mark angled line on top rail assembly at intersection.

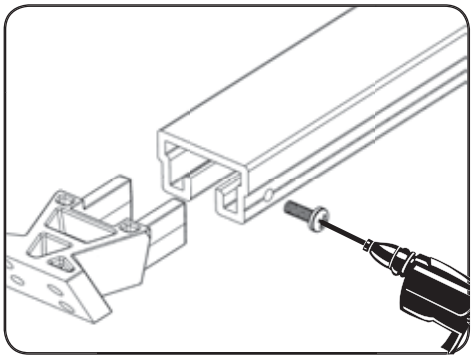
4.4: Cut top rail and baluster spacer to proper length and angle with miter saw.

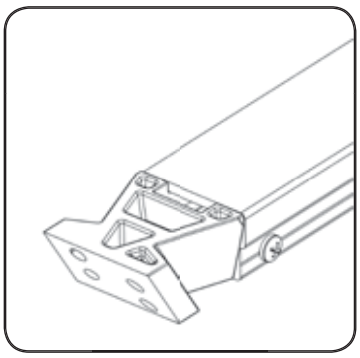
4.5: Plug in top stair brackets to chassis.



4 (Continued From Previous Page)

4.6: Attach the bracket to the chassis with supplied #8 x 5/8" self tapping screw in groove in chassis. Repeat on opposite side.

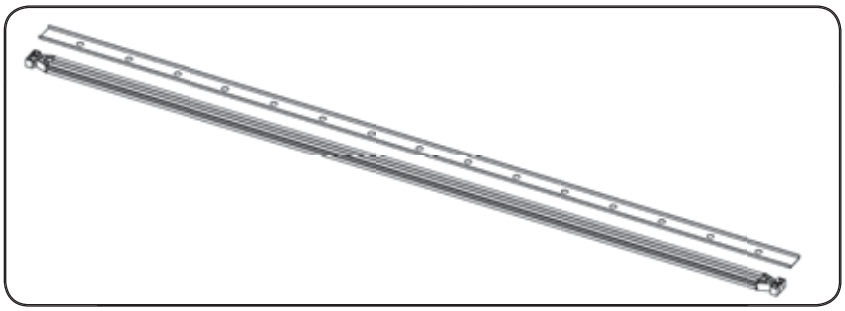


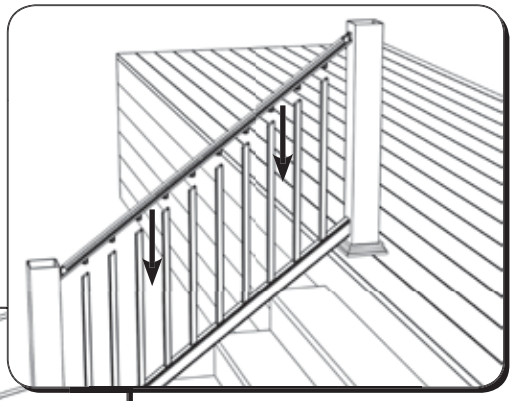


4.7: If angle is not 32 degrees cut bracket to desired angle.

4.8: Remove baluster spacer from top rail.

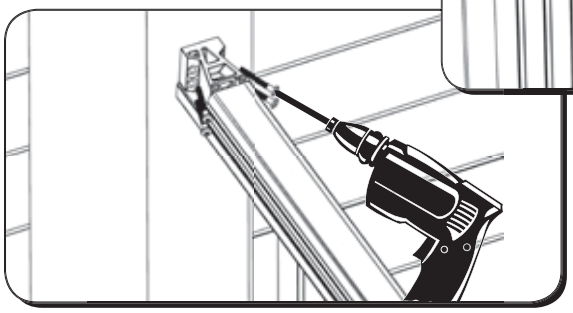
4.9: Turn chassis upside down and lay baluster spacer on top of chassis.
Make sure the baluster spacer completely covers the chassis and brackets
without extending beyond ends of brackets.





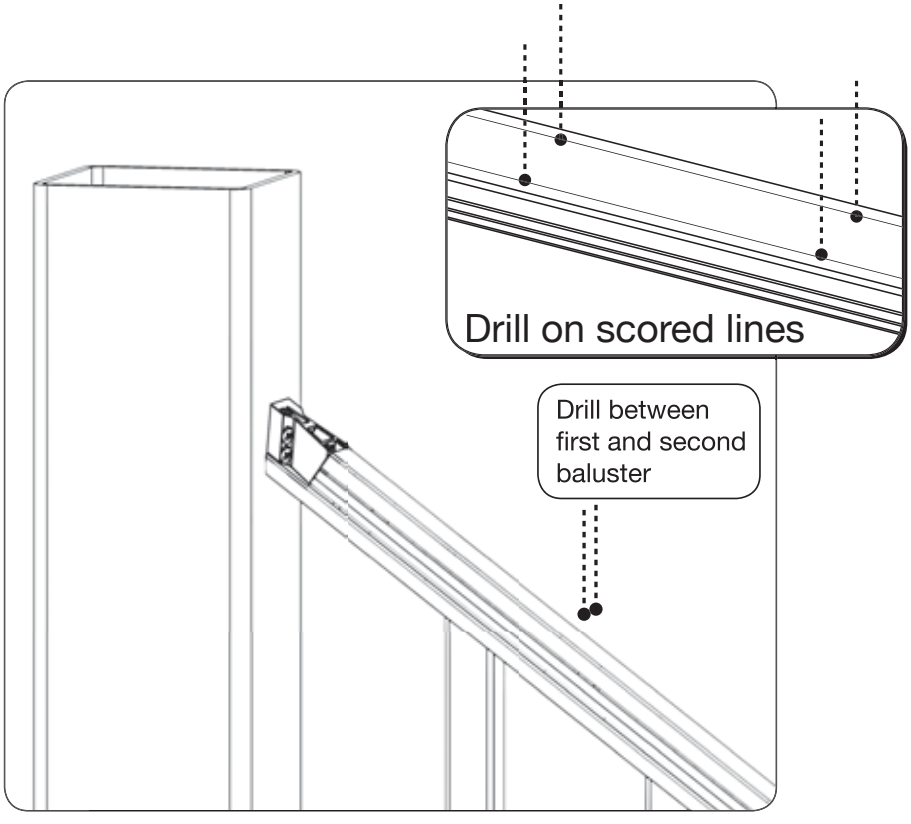
4.10: Install baluster plugs through spacer cover into the chassis until you hear a snap.

4.11: Carry assembled top rail chassis and plugs over to rail section and slide baluster plugs into the previously installed balusters. Align plugs partially into each baluster. After all are engaged,
firmly push down to ensure balusters fully engage the baluster plugs and the top baluster spacer becomes tight to the aluminum chassis.



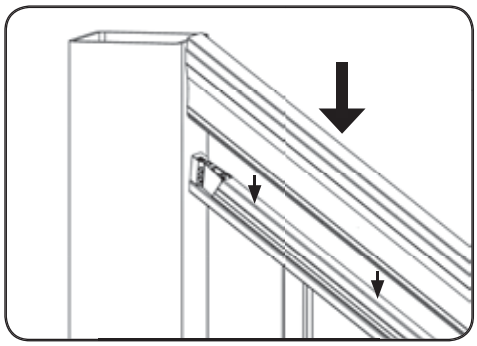
4.12: Using supplied #10 x 2" screws, attach top brackets to center of post.

4.13: Pre-drill with a 13/64" drill bit from the top of the installed chassis down all the way through baluster spacer cover. Drill holes on both sides of chassis on the scored lines. Drill first two holes between the first and second baluster, then, drill the remaining holes evenly across the length of the chassis.

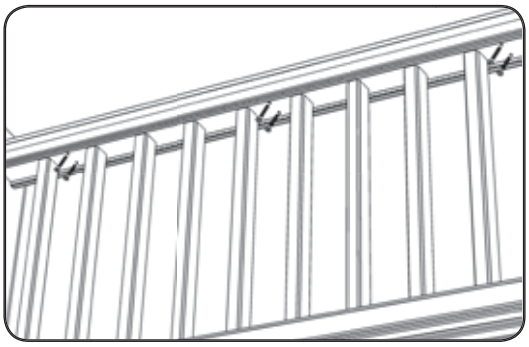


5 Installing The Top Rail

5.1: Slide previously cut top rail over the top of the assembled chassis, fitting snug to posts.



5.2: Through the holes in the top rail baluster spacer made in step 4.13, screw the provided #10 x 2" screws through the baluster spacer and chassis into the top rail to connect the assembly.



6 Installing the Deck Board "Over the Top" Format

(Make sure bottom stair post is at same angle as stair rail installation. Bottom stair post height will vary depending on angle of stair installation)

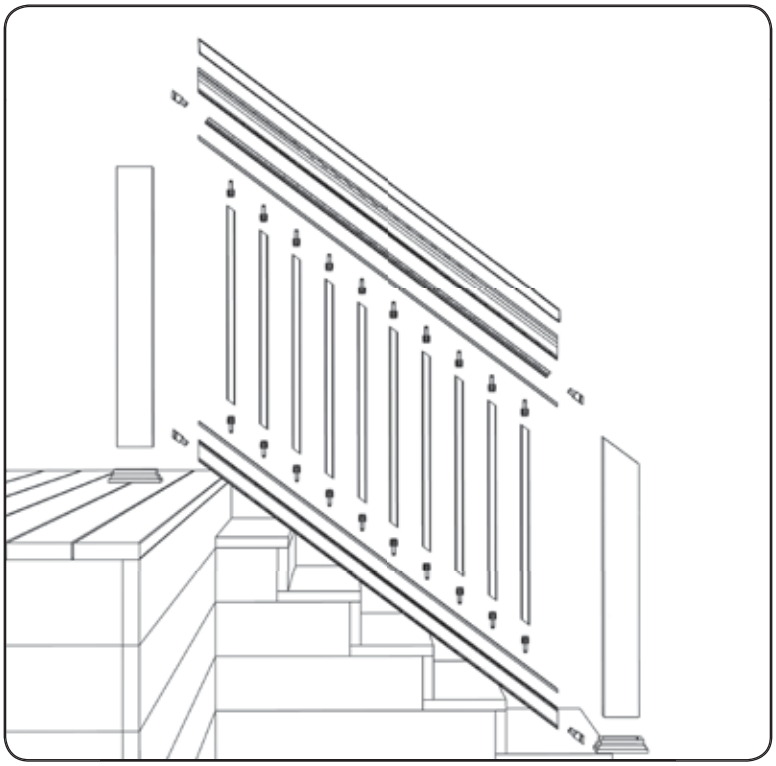
6.1: Follow instructions from step 2.

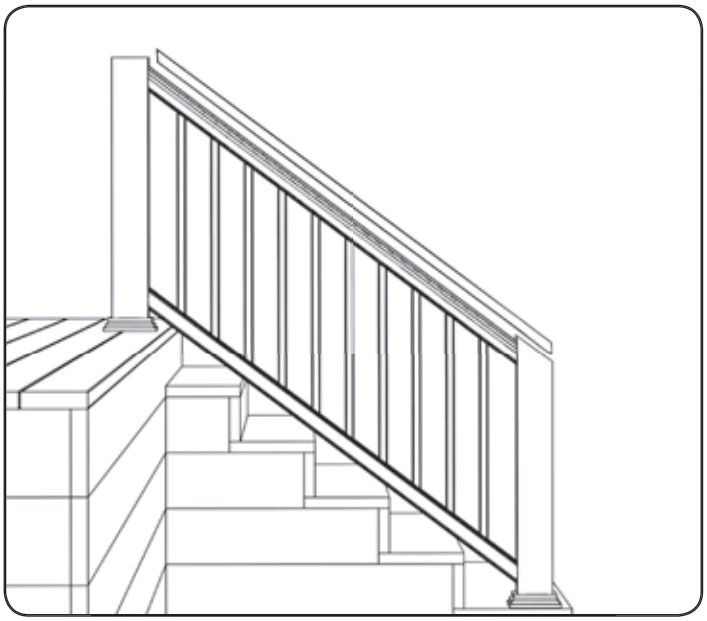
6.2: Follow instructions from step 3.

6.3: Follow instructions from step 4.

6.4: Follow instructions from step 5.

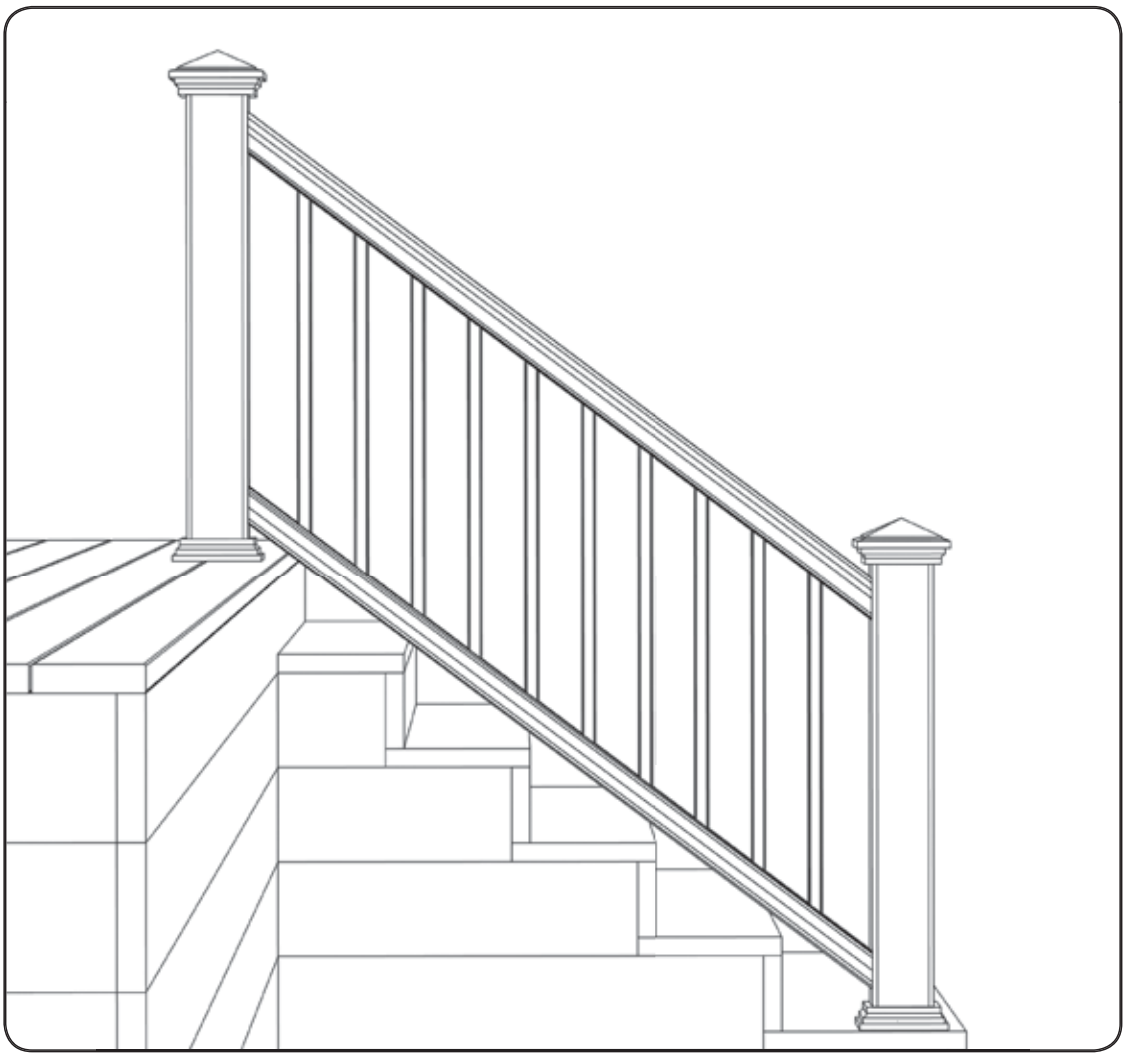
6.5: Place deck board (sold separately) over the top rail. Attach with board manufacturer recommended 2" screws into center of rail through board, ensuring screws engage chassis.





7 Finishing Touches

Add a final touch by attaching post tops to the posts.



Transferable Limited Lifetime Warranty

What is covered: Barrette Outdoor Living warrants vinyl and aluminum products to include; vinyl and aluminum fence, vinyl and aluminum railing and plastic lattice against defects or workmanship for as long as you own your home. Barrette Outdoor Living will at its option replace the product in question with new product of the same or equivalent value at no charge. Barrette Outdoor Living warrants these products against peeling, flaking, splintering, corrosion, rusting or abnormal discoloration under normal use and service per ASTMD 2244. This warranty extends to the original purchaser or transferee as specified herein on the products noted above. Separate and distinct warranties for hardware and other products are not covered under this warranty.

What this warranty does not cover: This limited warranty does not cover damage resulting from accident, unreasonable use, neglect, alteration, improper service, improper installation, acts of God or any other causes not arising out of defects in materials or workmanship. Additionally, this warranty does not cover costs of installation, removal, reinstallation or surface mold and mildew created by excessive environmental conditions. Any service or repair provided outside the scope of this limited warranty shall be at Barrette Outdoor Living's rate and terms then in effect.

What do we do to correct the problems? Should your Barrette Outdoor Living product prove defective under warranty, reference the website or call the phone number listed below. Your problem will be assigned a tracking number and an authorized Barrette Outdoor Living representative will contact you to arrange a convenient time to schedule an onsite inspection, or request pictures, if need be. If after inspection product is deemed to be manufacturer defect we will make arrangements to rectify the issue. You must have proof of your purchase in order for the problem to be corrected.

Transferee Coverage: Warranty coverage will be extended to one transferee on the above listed products with the following limitations. Transferee must obtain an original or copy of the initial sales receipt (with proof of date) from the previous owner(s). Additionally, if fence is purchased from a builder or installer, documentation must be supplied that names the product installed on property and date of transfer.

THIS WARRANTY IS IN LIEU OF ALL CONDITIONS OR WARRANTIES, EXPRESS, OR IMPLIED INCLUDING BUT NOT LIMITED TO ANY IMPLIED CONDITIONS OR WARRANTIES OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THE PART OF Barrette OR ITS LICENSORS, SOME STATES DO NOT ALLOW THE EXCLUSIONS OF IMPLIED WARRANTIES OR LIMITATIONS OF HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU. IF THE PRODUCT IS DEFECTIVE PER THE ABOVE COVERAGES, YOUR SOLE AND EXCLUSIVE REMEDY SHALL BE REPAIR OR REPLACEMENT AS PROVIDED ABOVE. BARRETTE AND ITS LICENSORS SHALL NOT BE LIABLE FOR ANY DAMAGES, LOSS OF USE, LOSS OF PROFITS OR INTERRUPTION OF BUSINESS WHETHER SUCH ALLEGED DAMAGES ARE BASED IN WARRANTY, TORT, CONTRACT, OR INDEMNITY. SOME STATES DO NOT ALLOW THE EXCLUSION OF LIMITATIONS OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU. This warranty is valid only in the United States and Canada.

Refer to www.BarretteOutdoorLiving.com for specific details about warranty limitations.
1-800-336-2383

To register your product, please visit: www.barretteoutdoorliving.com/product-registration

© 2013 Barrette Outdoor Living • 7830 Freeway Circle • Middleburg Heights, Ohio • 44130
http://www.barretteoutdoorliving.com • 1-800-336-2383

34106914BOM V1 7/13